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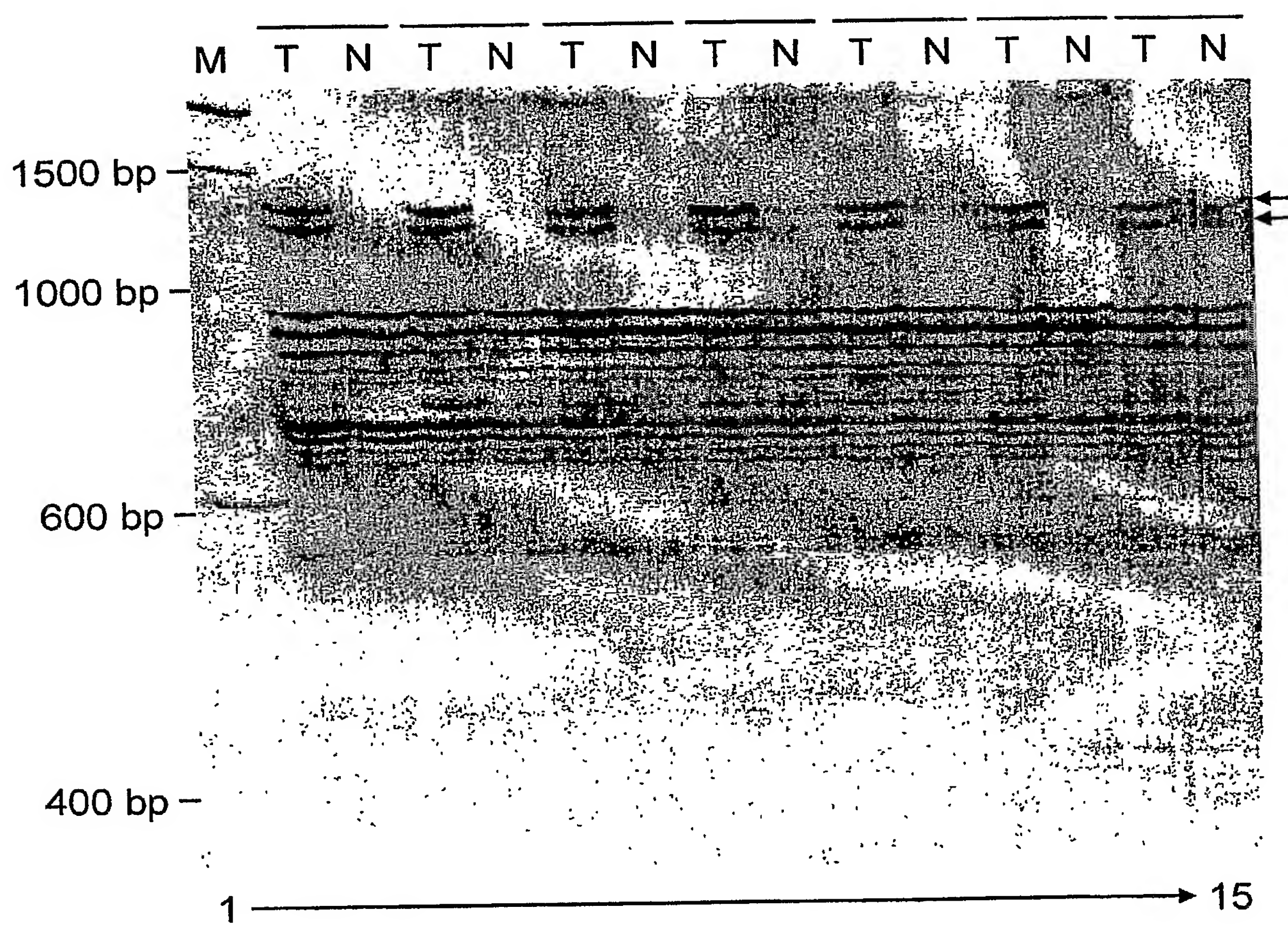


FIG.1

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FISH

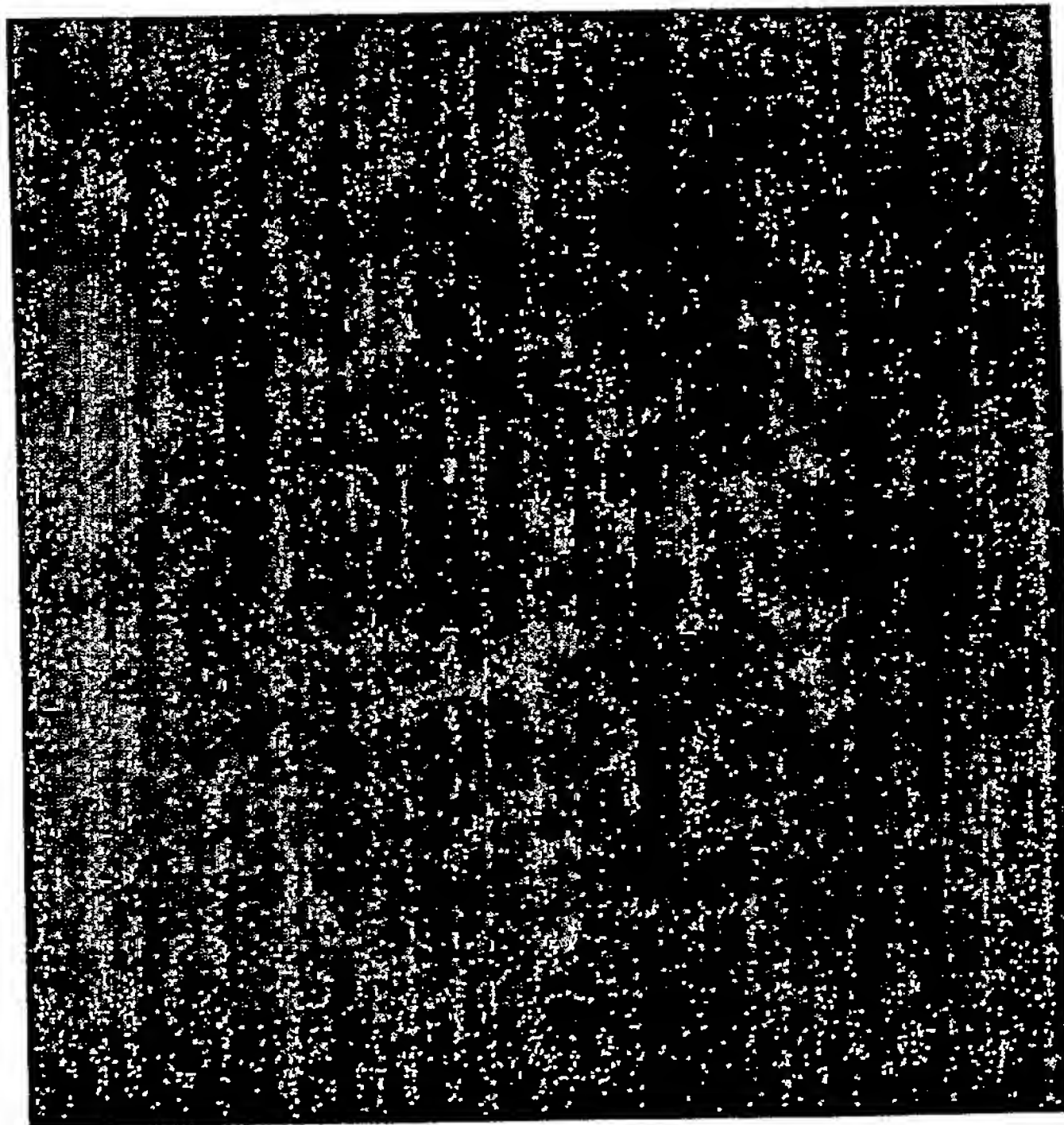


FIG.2A

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IDIOGRAMS

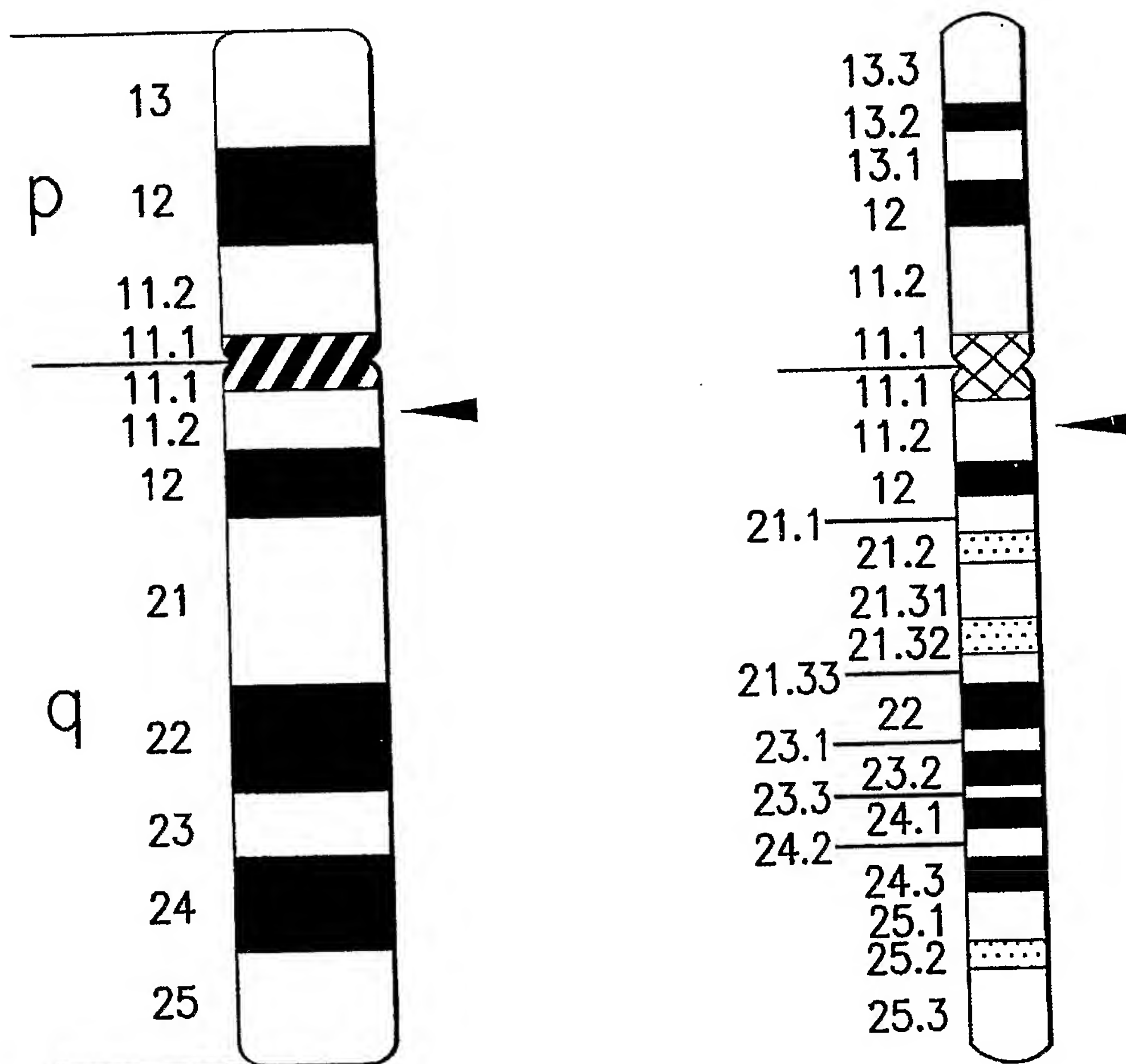


FIG.2B

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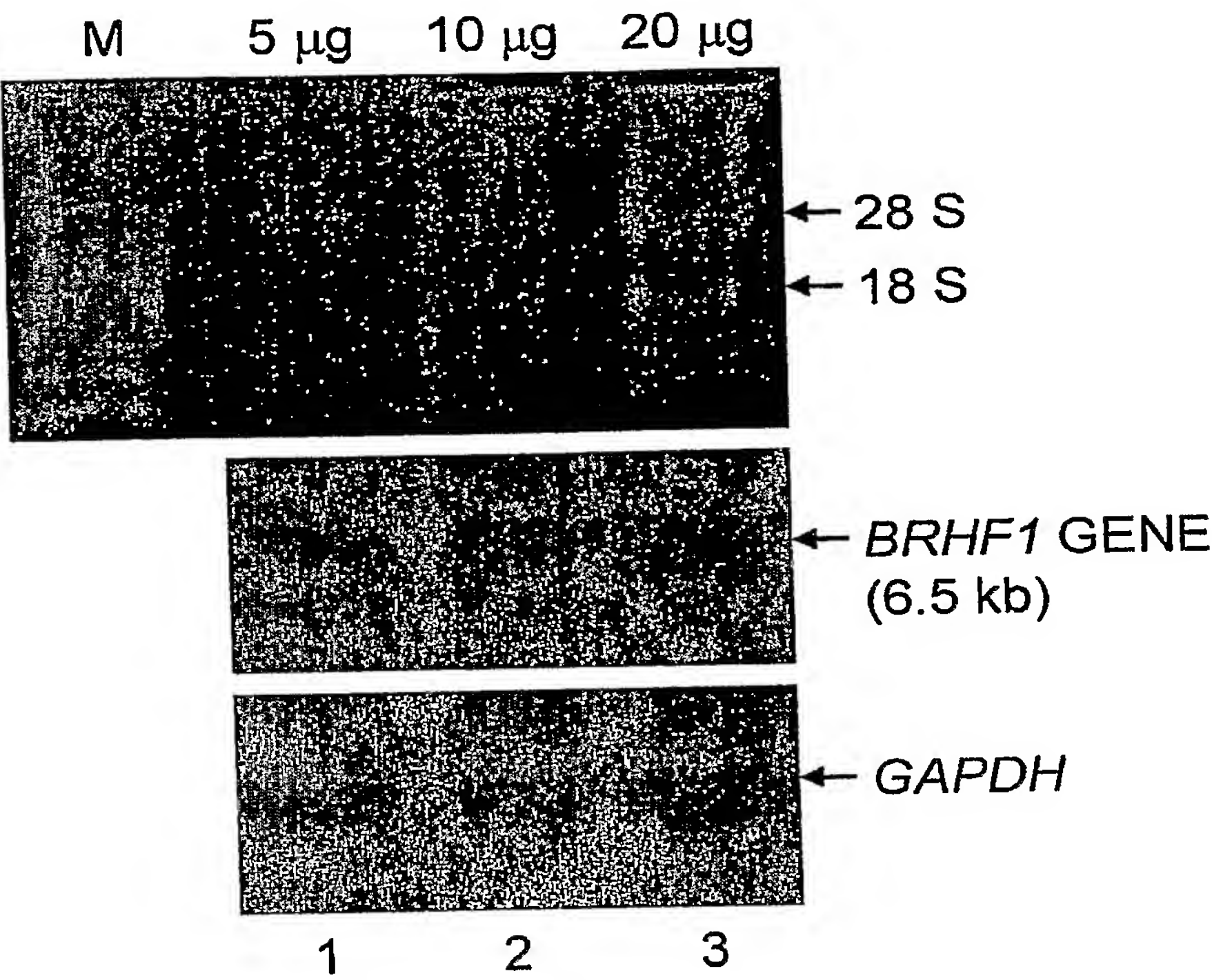


FIG.3A

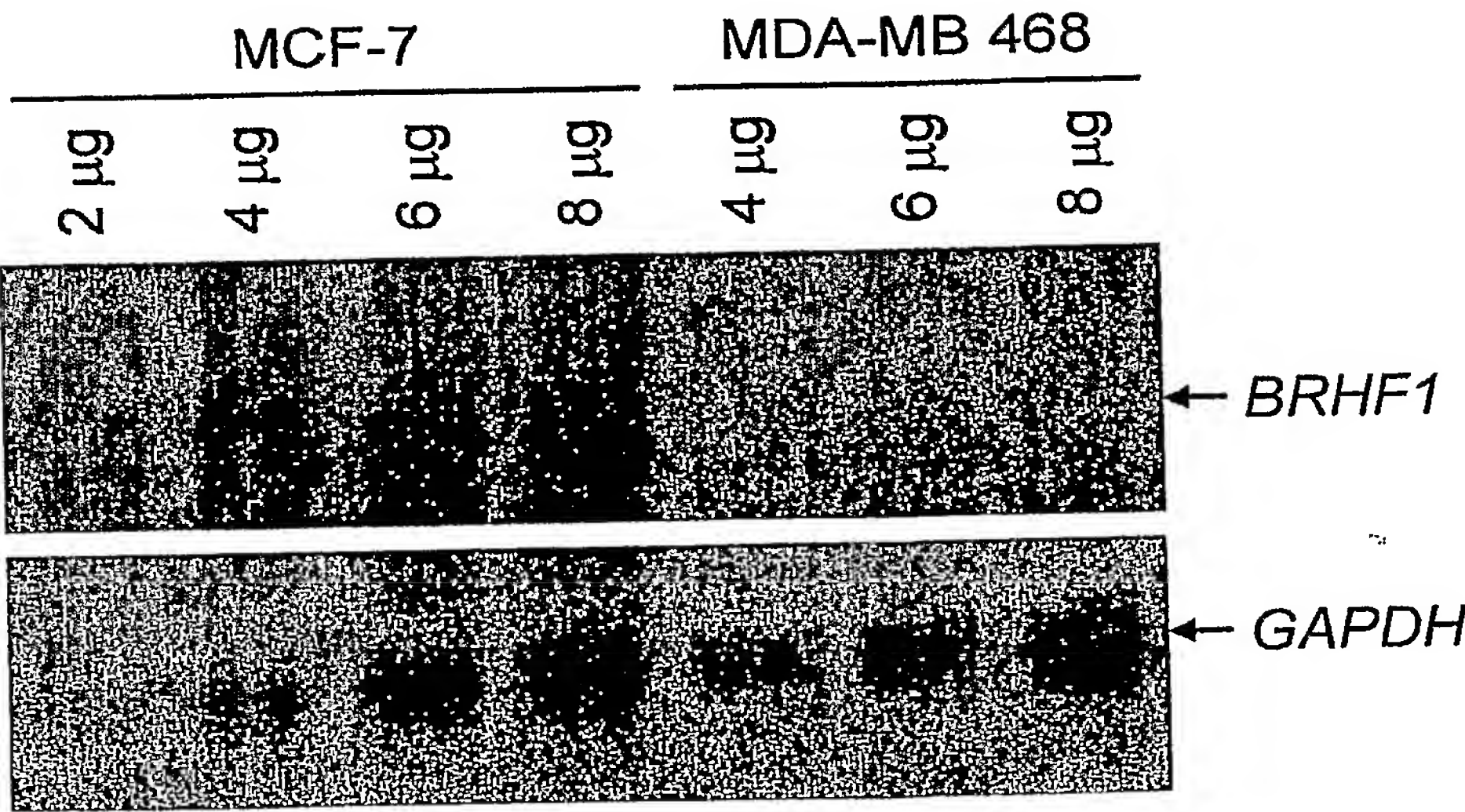


FIG.3B

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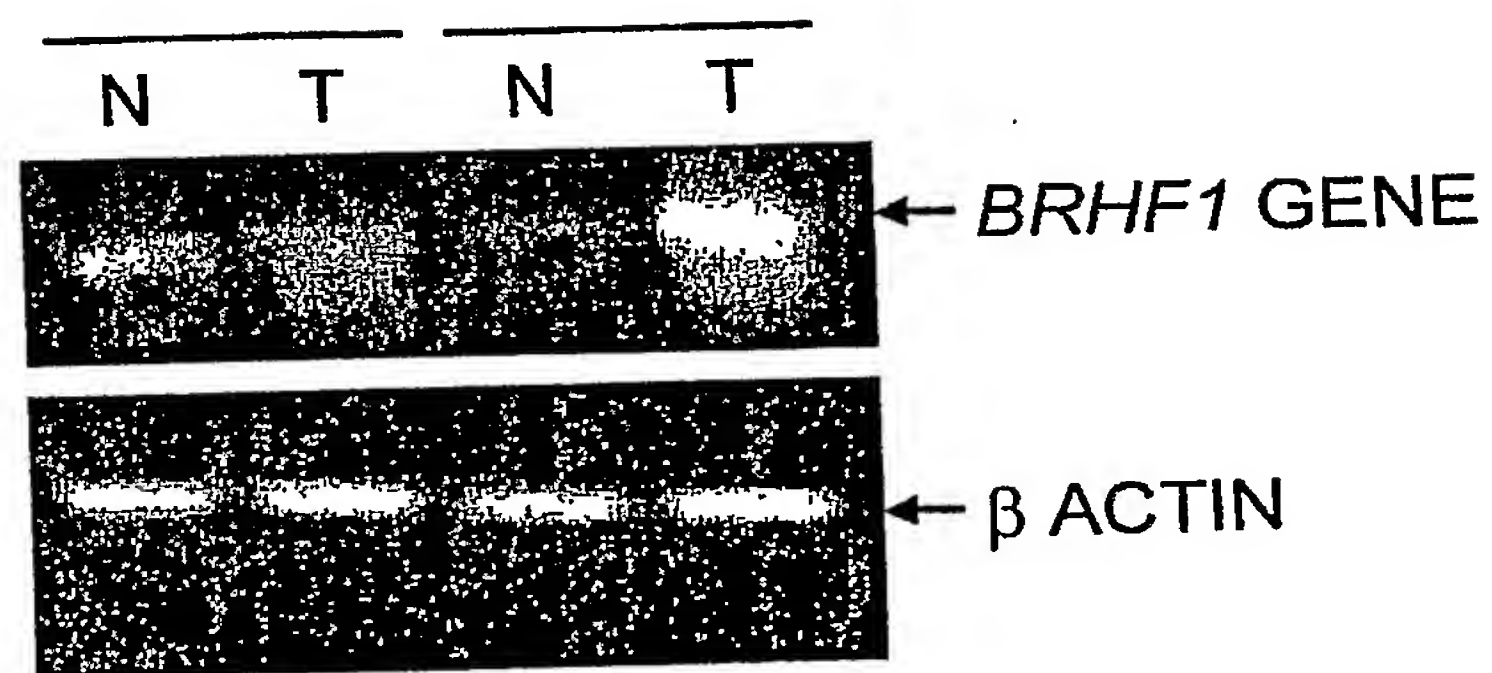


FIG.4

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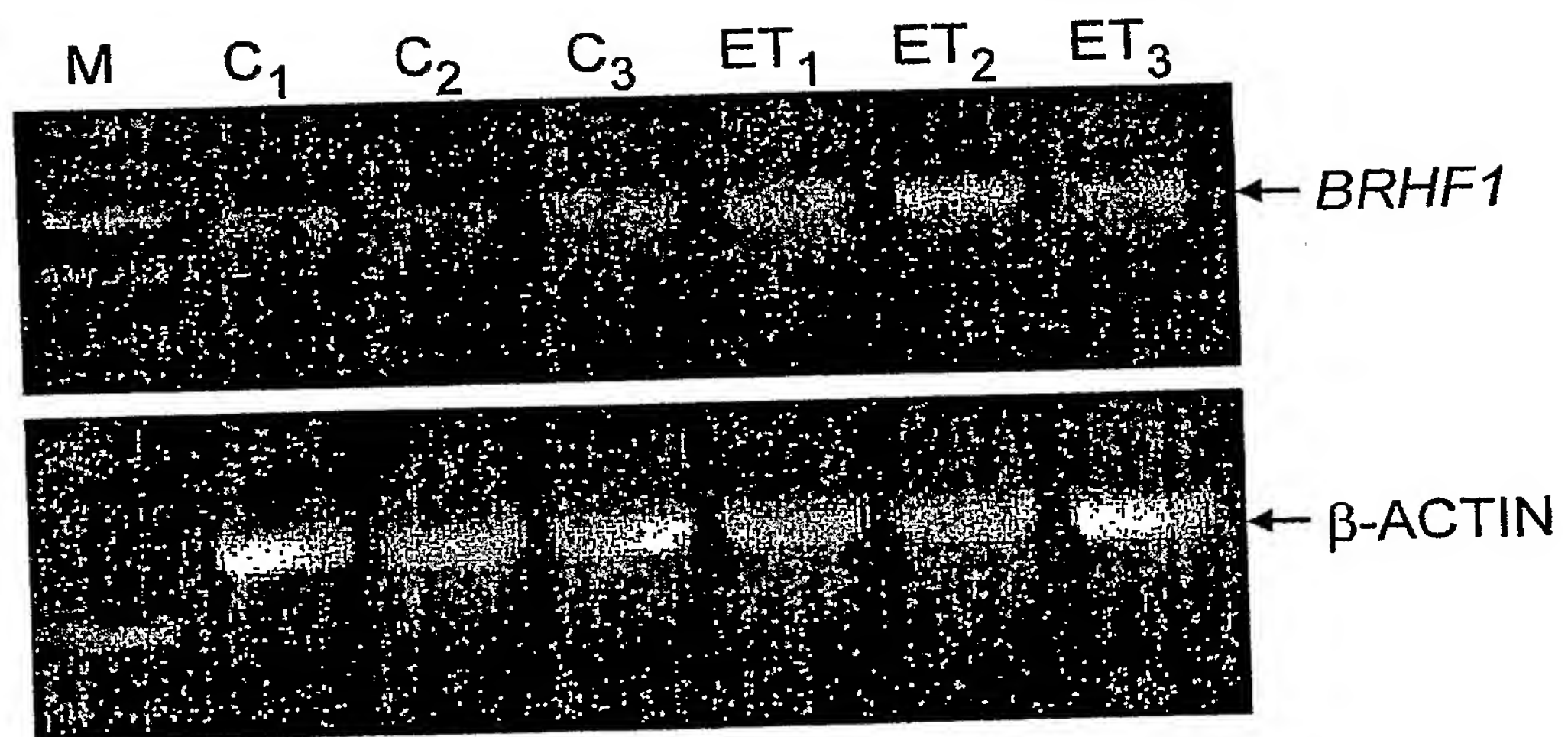


FIG.5

M	T	G	S	N	S	H	I	T	I	L	T	L	N	I	N	G	L	18
ATG	ACA	GGA	TCA	AAT	TCA	CAC	ATA	ACA	ATA	TTA	ACT	TTA	AAT	ATA	AAT	GGA	CTA	54
N	S	A	I	K	R	H	R	L	A	S	W	I	K	S	Q	D	P	36
AAT	TCT	GCA	ATT	AAA	AGA	CAC	AGA	CTG	GCA	AGT	TGG	ATA	AAG	AGT	CAA	GAC	CCA	108
S	V	C	C	I	Q	E	T	H	L	T	C	R	D	T	H	R	L	54
TCA	GTG	TGC	TGT	ATT	CAG	GAA	ACC	CAT	CTC	ACG	TGC	AGA	GAC	ACA	CAT	AGG	CTC	162
K	I	K	G	W	R	K	I	Y	Q	A	N	G	K	Q	K	K	A	72
AAA	ATA	AAA	GGA	TGG	AGG	AAG	ATC	TAC	CAA	GCC	AAT	GGA	AAA	CAA	AAA	AAG	GCA	216
G	V	A	I	L	V	S	D	K	T	D	F	K	P	T	K	I	K	90
GGG	GTT	GCA	ATC	CTA	GTC	TCT	GAT	AAA	ACA	GAC	TTT	AAA	CCA	ACA	AAG	ATC	AAA	270
R	D	K	E	G	H	Y	I	M	V	K	G	S	I	Q	Q	E	E	108
AGA	GAC	AAA	GAA	GGA	GAT	TAC	ATA	ATG	GTA	AAG	GGA	TCA	ATT	CAA	CAA	GAG	GAG	324
L	T	I	L	N	I	Y	A	P	N	T	G	A	P	R	F	I	K	126
CTA	ACT	ATC	CTA	AAT	ATT	TAT	GCA	CCC	AAT	ACA	GGA	GCA	CCC	AGA	TTC	ATA	AAG	378
Q	V	L	S	D	L	Q	R	D	L	D	S	H	T	L	I	M	G	144
CAA	GTC	CTC	AGT	GAC	CTA	CAA	AGA	GAC	TTA	GAC	TCC	CAC	ACA	TTA	ATA	ATG	GGA	432

FIG.6A

D F N T P L S T L D R S T R Q K V N	162
GAC TTT AAC ACC CCA CTG TCA ACA TTA GAC AGA TCA ACG AGA CAG AAA GTC AAC	486
K D T Q E L N S A L H Q A D L I D I	180
AAG GAT ACC CAG GAA TTG AAC TCA GCT CTG CAC CAA GCA CTA ATA GA C AIC	540
Y R T L H P K S T E Y T F S A P H	198
TAC AGA ACT CTC CAC CCC AAA TCA ACA GAA TAT ACA TTT TTT TCA GCA CCA CAC	594
H T Y S K I D H I V G S K A L L S K	216
CAC ACC TAT TCC AAA ATT GAC CAC ATA GTI GGA AGT AAA GCT CTC CTC AGC AAA	648
C K R T E I I T N Y L S D H S A I K	234
TGT AAA AGA ACA GAA ATT ATA ACA AAC TAT CTC TCA GAC CAC AGT GCA AIC AAA	702
L E L R I K N L T Q S R S T T W K L	252
CTA GAA CTC AGG ATT AAG AAT CTC ACT CAA AGC CGC TCA ACT ACA TGG AAA CTG	756
N N L L L N D Y W V H N E M K A E I	270
AAC AAC CTG CTC CTG AAT GAC TAC TGG GTA CAT AAC GAA ATG AAG GCA GAA ATA	810
K M F F E T N E N K D T T Y Q N L W	288
AAG ATG TTC TTT GAA ACC AAC GAG AAC AAA GAC ACC ACA TAC CAG AAT CTC TGG	864
D A F K A V C R G K F I A L N A Y Q	306
GAC GCA TTC AAA GCA GTG TGT AGA GGG AAA TTT ATA GCA CTA AAT GCC TAC CAG	918

FIG.6B

R	K	Q	E	R	S	K	I	D	T	L	T	S	Q	L	K	E	L	324
AGA	AAG	CAG	GAA	AGA	TCC	AAA	ATT	GAC	ACC	CTA	ACA	TCA	CAA	TTA	AAA	GAA	CTA	972
E	K	Q	E	Q	T	H	S	K	A	S	R	R	Q	E	I	T	K	342
GAA	AAG	CAA	GAG	CAA	ACA	CAT	TCA	AAA	GCT	AGC	AGA	AGG	CAA	GAA	ATA	ACT	AAA	1026
I	R	A	E	L	K	E	I	E	T	Q	K	T	L	Q	K	I	N	360
ATC	AGA	GCA	GAA	CTG	AAG	GAA	ATA	GAG	ACA	CAA	AAA	ACC	CTT	CAA	AAA	ATC	AAT	1080
E	S	R	S	W	F	F	E	R	I	N	K	I	D	R	P	L	A	378
GAA	TCC	AGG	AGC	TGG	TTT	TTT	GAA	AGG	ATC	AAC	AAA	ATT	GAT	AGA	CCG	CTA	GCA	1134
R	L	I	K	K	K	R	E	K	N	Q	I	D	T	I	K	N	D	396
AGA	CTA	ATA	AAG	AAA	AGA	GAG	AAG	AAT	CAA	ATA	GAC	ACA	ATA	AAA	AAT	GAT		1188
K	G	D	I	T	T	D	P	T	E	I	Q	T	T	I	R	E	Y	414
AAA	GGG	GAT	ATC	ACC	ACC	GAT	CCC	ACA	GAA	ATA	CAA	ACT	ACC	ATC	AGA	GAA	TAC	1242
Y	K	H	L	Y	A	N	K	L	E	N	L	E	E	M	D	T	F	432
TAC	AAA	CAC	CTC	TAC	GCA	AAT	AAA	CTA	GAA	AAT	CTG	GAA	GAA	ATG	GAT	ACA	TTC	1296
L	D	T	Y	T	L	P	R	L	N	Q	E	E	V	E	S	L	N	450
CTC	GAC	ACA	TAC	ACT	CTC	CCA	AGA	CTA	AAC	CAG	GAA	GAA	GTT	GAA	TCT	CTG	AAT	1350
R	P	I	T	G	S	E	I	V	A	I	I	N	S	L	P	T	K	468
CGA	CCA	ATA	ACA	GGC	TCT	GAA	ATT	GTG	GCA	ATA	ATC	AAT	AGT	TTA	CCA	ACC	AAA	1404

FIG.6C

K S P G P D G F T A E F Y Q R Y K E	486
<u>AAG AGT CCA GGA CCA GAT GGA TTC ACA GCC GAA TTC TAC CAG AGG TAC AAG GAG</u>	1458
E L V P F L L K L F Q S I E K E G I	504
<u>GAA CTG GTA CCA TTC CTT CIG AAA CIA TTC CAA TCA ATA GAA AAA GAG GGA ATC</u>	1512
L P N S F Y E T S I I L I P K P G R	522
<u>CTC CCT AAC TCA TTT TAT GAG ACC AGC ATC ATT CTG ATA CCA AAG CCG GGC AGA</u>	1566
D T T K K E N F R P I S L M N I D A	540
<u>GAC ACA ACC AAA AAG AAT TTT AGA CCA ATA TCC TTG ATG AAC ATT GAT GCA</u>	1620
K I L N K I L A N R I Q Q H I K K L	558
<u>AAA ATC CTC AAT AAA ATA CTG GCA AAC CGA ATC CAG CAG CAC ATC AAA AAG CTT</u>	1674
I H H D Q V G F I P G M Q G W F N I	576
<u>ATC CAC CAT GAT CAA GTG GGC TTC ATC CCT GGG ATG CAA GGC TGG TTC AAT ATA</u>	1728
R K S I N V I Q H I N R A K D K N H	594
<u>CGC AAA TCA ATA AAT GTA ATC CAG CAT ATA AAC AGA GCC AAA GAC AAA AAC CAC</u>	1782
M I I S I D A E K A F D K I Q Q P F	612
<u>ATG ATT ATC TCA ATA GAT GCA GAA AAA GCC TTT GAC AAA ATT CAA CAA CCC TTC</u>	1836
M L K T L N K L G I D G T Y F K I I	630
<u>ATG CTA AAA ACT CTC AAT AAA TTA GGT ATT GAT GGG ACG TAT TTC AAA ATA ATA</u>	1890

FIG.6D

R A I Y D K P T A N I I L N G Q K L 648
AGA GCT ATC TAT GAC AAA CCC ACA GCC AAT ATC ATA CTG AAT GGA CAA AAA CTG 1944

E A F P L K T G T R Q G C P L S P L 666
GAA GCA TTC CCT TTG AAA ACT GGC ACA AGA CAG GGA TGC CCT CTC TCA CCG CTC 1998

L F N I V L E V L A R A I R Q E K E 684
CTA TTC AAC ATA GTG TTG GAA GTT CTG GCC AGG GCA ATC AGG CAG GAG AAG GAA 2052

I K G I Q L G K E E V K L S L F A D 702
ATA AAG GGT ATT CAA TTA GGA AAA GAG GAA GTC AAA TTG TCC CTG TTT GCA GAC 2106

D M I V Y L E N P I V S A Q N L L K 720
GAC ATG ATT GTT TAT CTA GAA AAC CCC ATC GTC TCA GCC CAA AAT CTC CTT AAG 2160

L I S N F S K V S G Y K I N V Q K S 738
CTG ATA AGC AAC TTC AGC AAA GTC TCA GGA TAC AAA ATC AAT GTA CAA AAA TCA 2214

Q A F L Y T N N R Q T E S Q I M S E 756
CAA GCA TTC TTA TAC ACC AAC AAC AGA CAA ACA GAG AGC CAA ATC ATG AGT GAA 2268

L P F T I A S K R I K Y L G I Q L T 774
CTC CCA TTC ACA ATT GCT TCA AAG AGA ATA AAA TAC CTA GGA ATC CAA CTT ACA 2322

R D V K D L F K E N Y K P L L K E I 792
AGG GAT GTG AAG GAC CTC TTC AAG GAG AAC TAC AAA CCA CTG CTC AAG GAA ATA 2376

FIG.6E

K E E T N K W K N I P C S W V G R I	810
AAA GAG GAG ACA AAC AAA TGG AAG AAC ATT CCA TGC TCA TGG GTA GGA AGA ATC	2430
N I V K M A I L P K V I Y R F N A I	828
AAT ATC GTG AAA ATG GCC ATA CTG CCC AAG GTA ATT TAC AGA TTC AAT GCC ATC	2484
P I K L P M T F F T E L E K T T L K	846
CCC ATC AAG CTA CCA ATG ACT TTC TTC ACA GAA TTG GAA AAA ACT ACT TTA AAG	2538
F I W N Q K R A R I A K S I L S Q K	864
TTC ATA TGG AAC CAA AAA AGA GCC CGC ATT GCC AAG TCA ATC CTA AGC CAA AAG	2592
N K A G G I T L L P D F K L Y Y K A T	882
AAC AAA GCT GGA GGC ATC ACA CTA CCT GAC TTC AAA CTA TAC TAC AAG GCT ACA	2646
V T K T A W Y Y Q N R D I D Q W N	900
GTA ACC AAA ACA GCA TGG TAC TGG TAC CAA AAC AGA GAT ATA GAT CAA TGG AAC	2700
R T E P S E I M P H I Y N Y L I F D	918
AGA ACA GAG CCC TCA GAA ATA ATG CCG CAT ATC TAC AAC TAT CTG ATC TTT GAC	2754
K P E K N K Q W G K D S L F N K W C	936
AAA CCT GAG AAA AAC AAG CAA TGG GGA AAG GAT TCC CTG TTT AAT AAA TGG TGC	2808
W E N W L A I C R K L K L D P F L T	954
TGG GAA AAC TGG CTA GCC ATA TGT AGA AAG CTG AAA CTG GAT CCC TTC CTT ACA	2862

FIG.6F

P	Y	T	K	I	N	S	R	W	I	K	D	L	N	V	K	P	K	972
CCT	TAT	ACA	AAA	ATC	AAT	TCA	AGA	TGG	ATT	AAA	GAT	TTA	AAC	GTT	AAA	CCT	AAA	2916
T	I	K	T	L	E	E	N	L	G	I	T	I	Q	D	I	G	V	990
ACC	ATA	AAA	ACC	CTA	GAA	GAA	AAC	CTA	GGC	ATT	ACC	ATT	CAG	GAC	ATA	GGC	GTG	2970
G	K	D	F	M	S	K	T	P	K	A	M	A	T	K	D	K	I	1008
GGC	AAG	GAC	TTC	ATG	TCC	AAA	ACA	CCA	AAA	GCA	ATG	GCA	ACA	AAA	GAC	AAA	ATT	3024
D	K	W	D	L	I	K	L	K	S	F	C	T	A	K	E	T	T	1026
GAC	AAA	TGG	GAT	CTA	ATT	AAA	CTA	AAG	AGC	TTC	TGC	ACA	GCA	AAA	GAA	ACT	ACC	3078
I	R	V	N	R	Q	P	T	T	W	E	K	I	F	A	T	Y	S	1044
ATC	AGA	GTG	AAC	AGG	CAA	CCT	ACA	ACA	TGG	GAG	AAA	ATT	TTT	GCA	ACC	TAC	TCA	3132
S	D	K	G	L	I	S	R	I	Y	N	E	L	K	Q	I	Y	K	1062
TCT	GAC	AAA	GGG	CTA	ATA	TCC	AGA	ATC	TAC	AAT	GAA	CTC	AAA	CAA	ATT	TAC	AAG	3186
K	K	T	N	N	P	I	K	K	W	A	K	D	M	N	R	H	F	1080
AAA	AAA	ACA	AAC	AAC	CCC	ATC	AAA	AAG	TGG	GCG	AAG	GAC	ATG	AAC	AGA	CAC	TTC	3240
S	K	E	D	I	Y	A	A	K	K	H	M	K	K	C	S	S	S	1098
TCA	AAA	GAA	GAC	ATT	TAT	GCA	GCC	AAA	AAA	CAC	ATG	AAG	AAA	TGC	TCA	TCA	TCA	3294
L	A	I	R	E	M	Q	I	K	T	T	M	R	Y	H	L	T	P	1116
CTG	GCC	ATC	AGA	GAA	ATG	CAA	ATC	AAA	ACC	ACT	ATG	AGA	TAT	CAT	CTC	ACA	CCA	3348

FIG.6G

V R M A I I K K S G N R C W R G C	1134
GTT AGA ATG GCA ATC ATT AAA AAG TCA GGA AAC AAC AGG TGC TGG AGA GGA TGC	3402
G E I G T L L H C W D C K L V Q P	1152
GGA GAA ATA GGA ACA CTT TTA CAC TGT TGG TGG GAC TGT AAA CTA GTT CAA CCA	3456
L W K S V W R F L R D L E L E I P F	1170
TTG TGG AAG TCA GTG TGG CGA TTC CTC AGG GAT CTA GAA CTA GAA ATA CCA TTT	3510
D P A I P L L G I Y P N E Y K S C C	1188
GAC CCA GCC ATC CCA TTA CTG GGT ATA TAC CCA AAT GAG TAT AAA TCA TGC TGC	3564
Y K D T C T R M F I A A L F T I A K	1206
TAT AAA GAC ACA TGC ACA CGT ATG TTT ATT GCG GCA CTA TTC ACA ATA GCA AAG	3618
T W N Q P K C P T M I D W I K K M W	1224
ACT TGG AAC CAA CCC AAA TGT CCA ACA ATG ATA GAC TGG ATT AAG AAA ATG TGG	3672
H I Y T M E Y Y A A I K N D E F I S	1242
CAC ATA TAC ACC ATG GAA TAC TAT GCA GCC ATA AAA AAT GAT GAG TTC ATA TCC	3726
F V G T W M K L E T I I L S K L S Q	1260
TTT GTA GGG ACA TGG ATG AAA TTG GAA ACC ATC ATT CTC AGT AAA CTA TCG CAA	3780
E Q K T K H R I F S L I G G N *	1276
GAA CAA AAA ACC AAA CAC CGC ATA TTC TCA CTC ATA GGT GGG AAT TGA	3828

FIG.6H